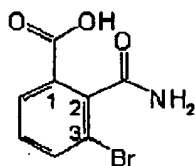
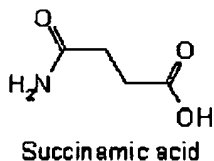


Carboxylic Acids and their Derivatives

Amic acids Rule C-431

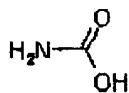
431.1 - When a dicarboxylic acid has a trivial name and when one of its carboxyl groups is replaced by a carboxamide group $-C(=O)-NH_2$, the resulting amic acid is named by replacing the suffix "-ic" of the trivial name of the dicarboxylic acid by the suffix "-amic".

Examples to Rule C-431.1

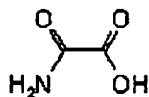


3-Bromophthalamic acid

The following names are also recommended:



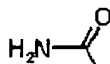
Carbamic acid



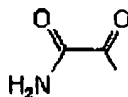
Oxamic acid

431.2 - Acyl radicals derived from the above amic acids are named by replacing the "-amic acid" ending by "-amoyl".

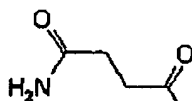
Examples to Rule C-431.2



Carbamoyl (from carbamic acid)



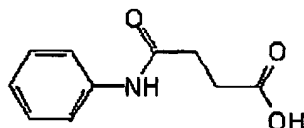
Oxamoyl (from oxamic acid)



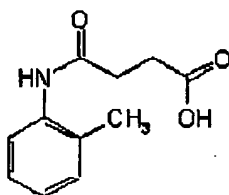
Succinamoyl (from succinamic acid)

431.3 - When the corresponding dicarboxylic acid has a trivial or semitrivial name, *N*-phenyl derivatives of-amic acids are named by changing the ending "-amic acid" to "-anilic acid".

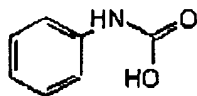
Examples to Rule C-431.3



Succinanilic acid



2'-Methylsuccinanilic acid

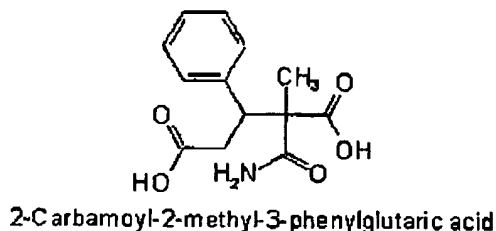
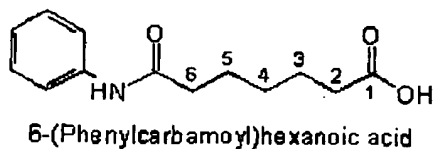
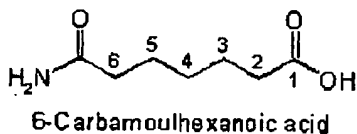


Carbanilic acid or Phenylcarbamic acid

431.4 - Ionoamides of dicarboxylic acids without trivial names and the mono- or di-amides of tricarboxylic acids, *etc.*, are designated as carbamoyl derivatives of the acid named on the basis of the remaining carboxyl groups.

(This Rule is partly alternative to Rule C-431.1.)

Examples to Rule C-431.4



See Recommendations '93 R-5.7.1

Next:

Peroxy Acids Rule C-441

Imidic, Hydrazonic, and Hydroxamic Acids Rule C-451

Salts and Esters Rule C-461, Rule C-462, Rule C-463, Rule C-464

Lactones, Lactides, Lactams, and Lactims Rule C-471, Rule C-472, Rule C-473, Rule C-474,
Rule C-475

Acyl Halides Rule C-481

Acid Anhydrides Rule C-491



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- Explore IUPAC and CAS Nomenclature tools, such as [Free IUPAC name generation](#) and professional [ACD/Name Software](#)
- Look up structures of (trivial) and trade names with [ACD/Dictionary](#)
- [More resources](#) for educators and students